

FIG. 1

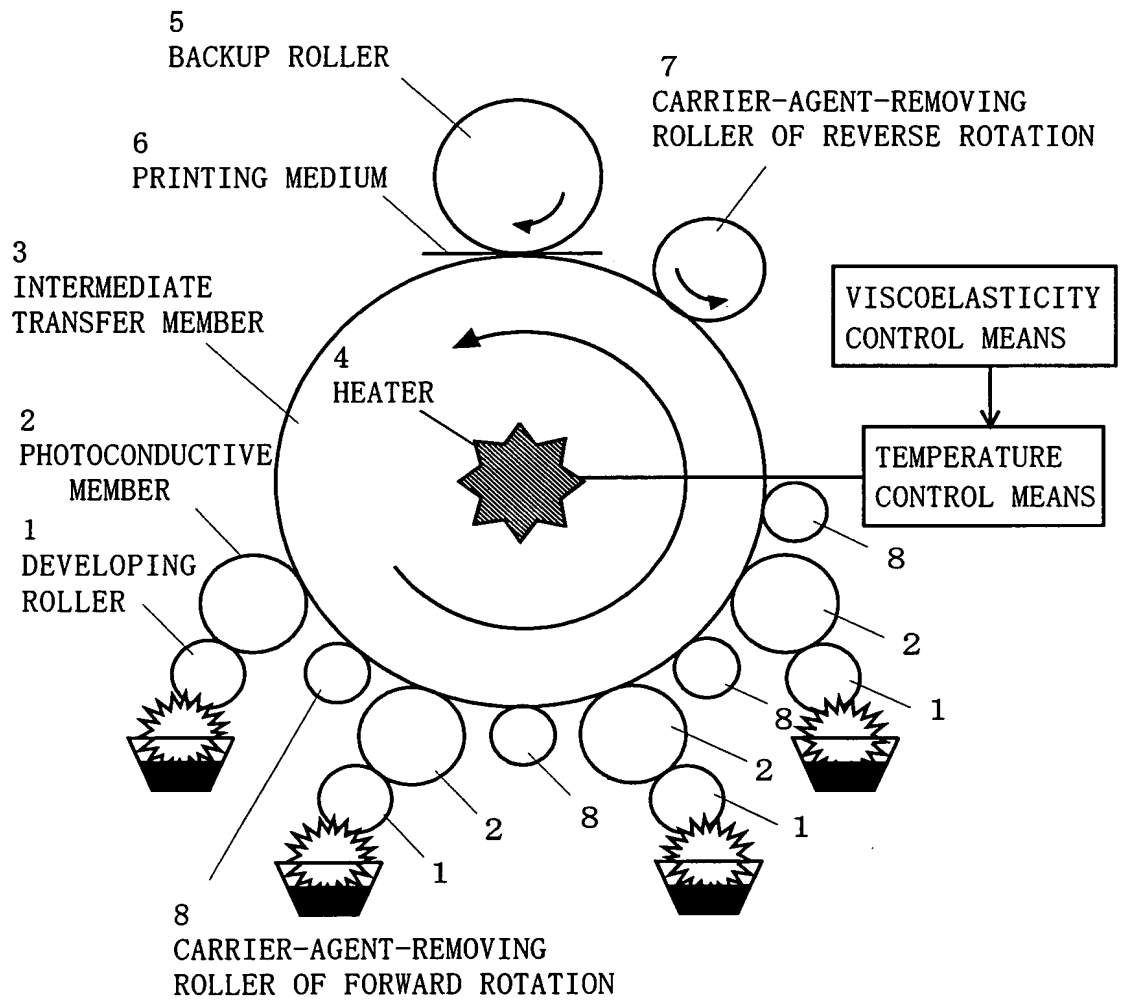
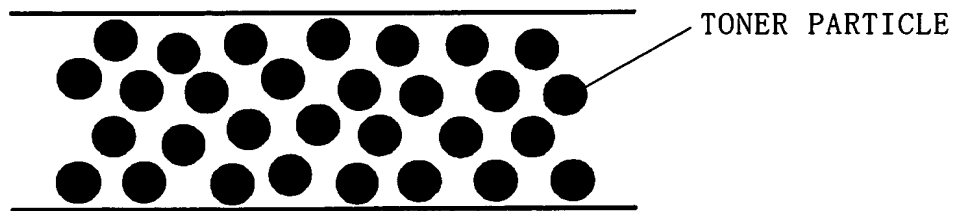
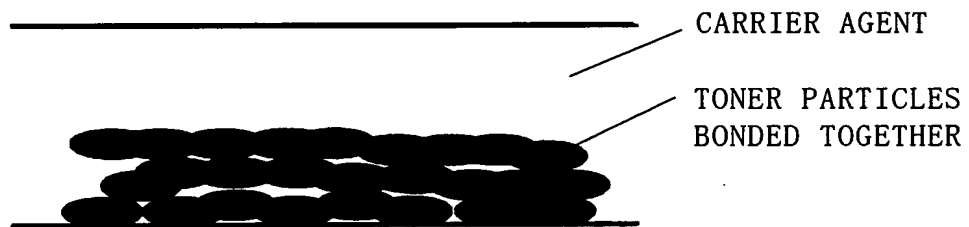


FIG. 2

(A) TONER-PARTICLE-UNMOLTEN CONDITION



(B) LIQUID-TONER-SOFTENED CONDITION



(C) TONER-PARTICLE-LIQUEFIED CONDITION

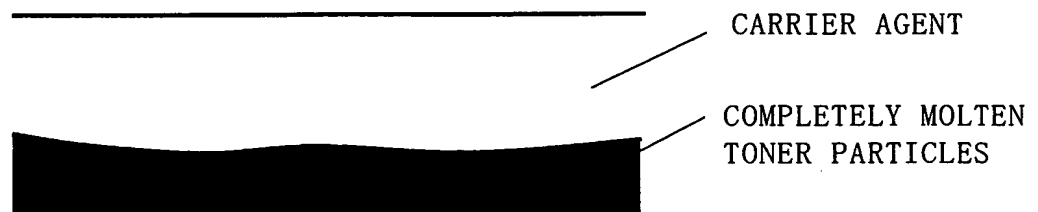
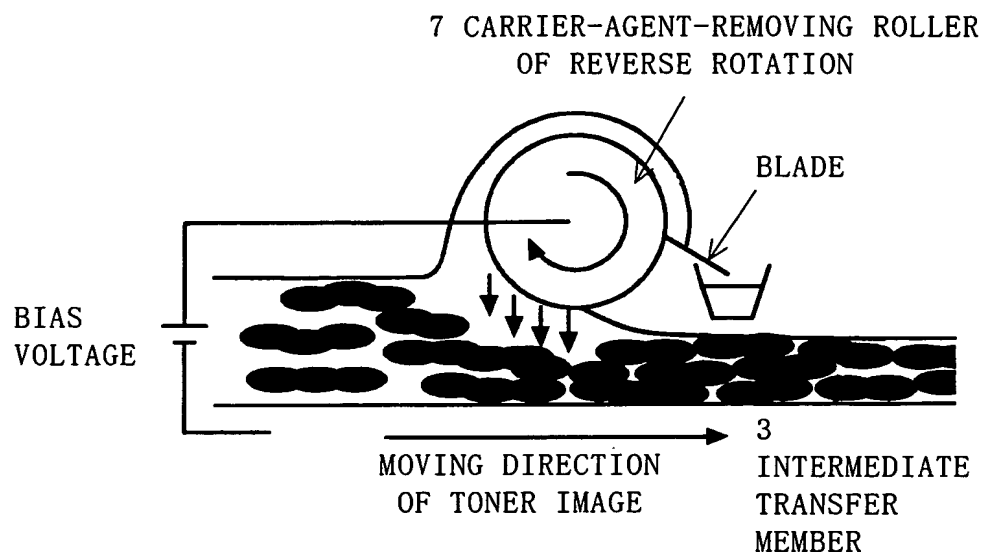


FIG. 3

(A) PROCESS FOR CAUSING CARRIER AGENT TO FLOAT UP



(B) PROCESS FOR REMOVING CARRIER AGENT

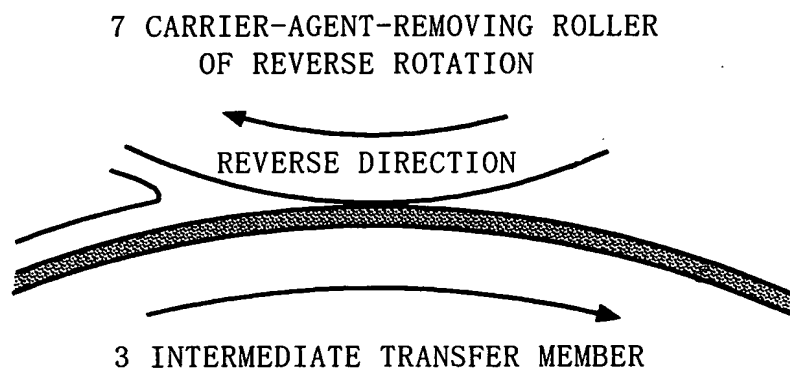


FIG. 4

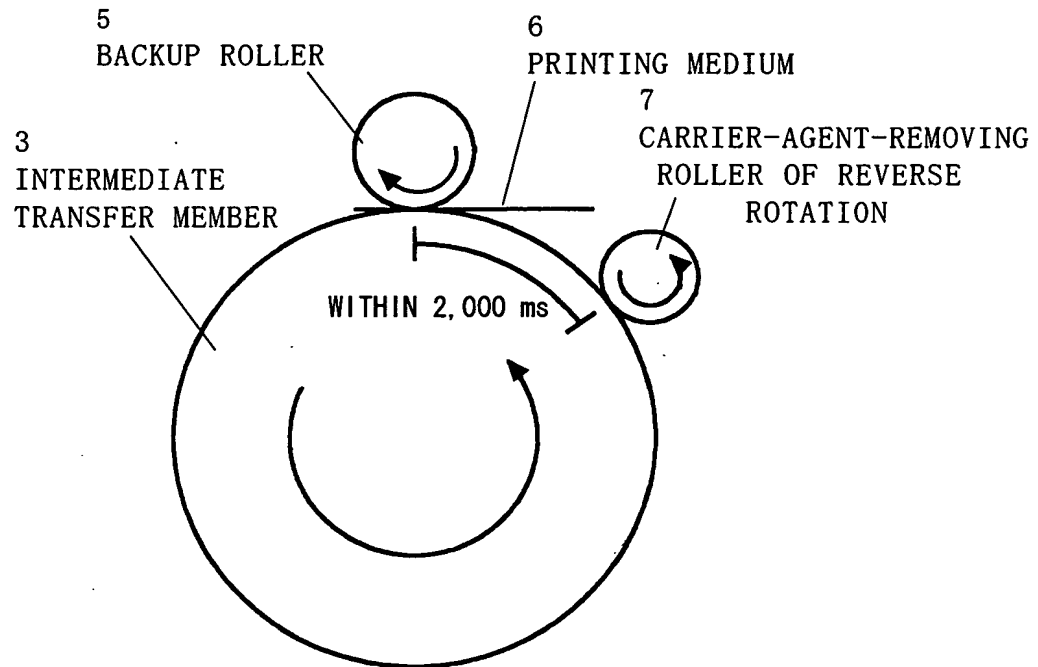


FIG. 5

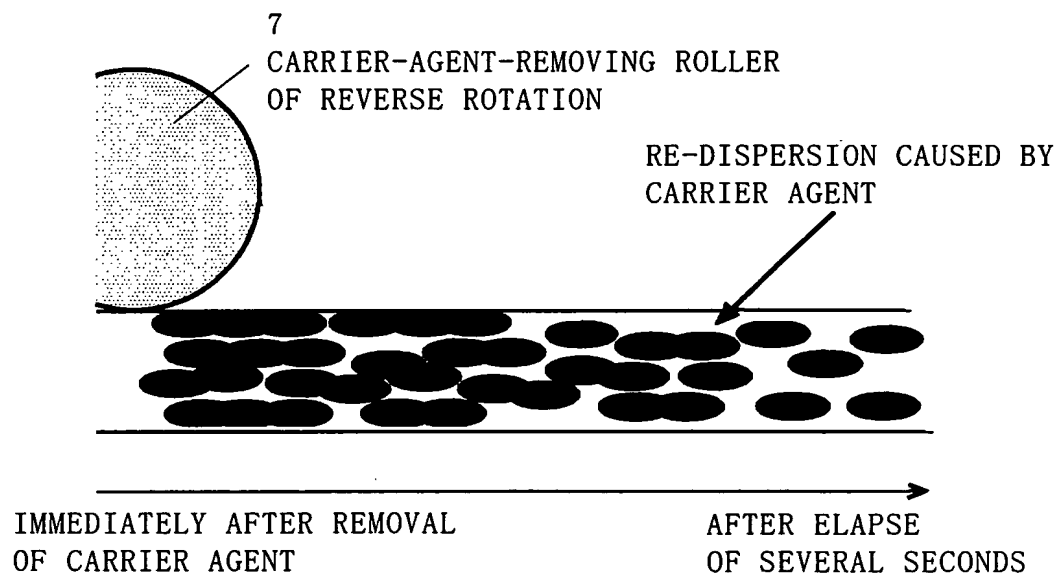
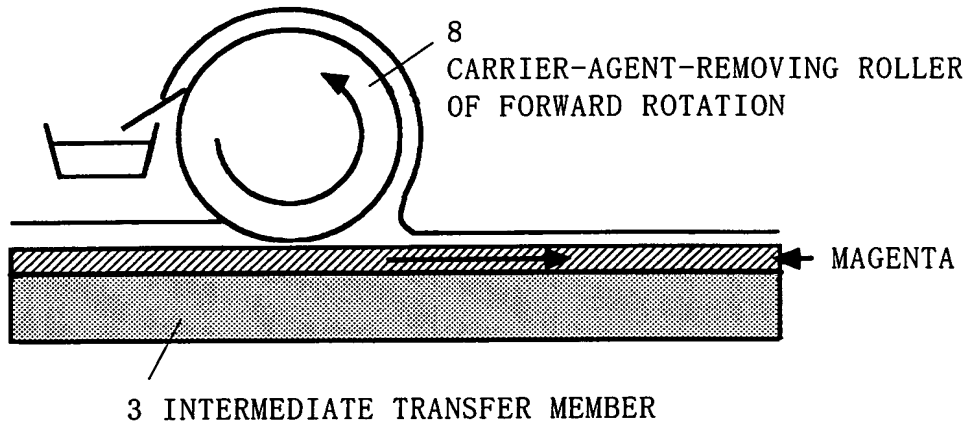


FIG. 6

(A) AFTER TRANSFER OF MAGENTA, CARRIER AGENT IS REMOVED



(B) AFTER TRANSFER OF YELLOW, CARRIER AGENT IS REMOVED

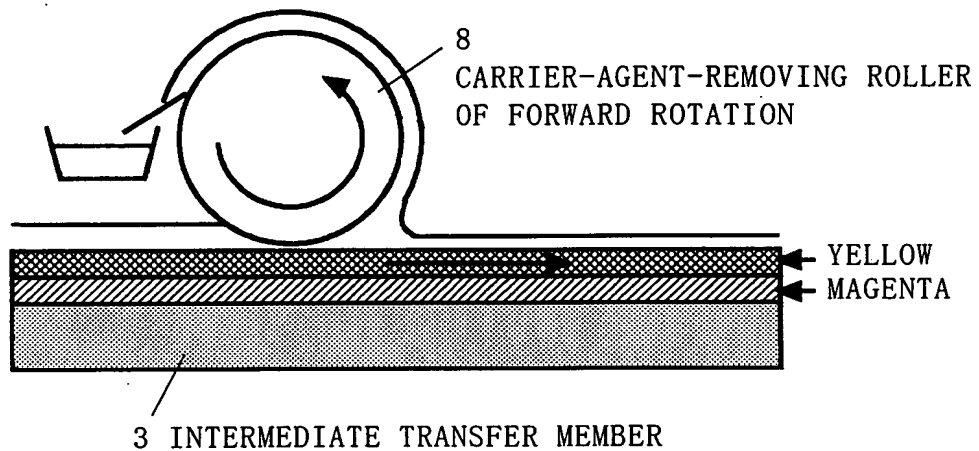
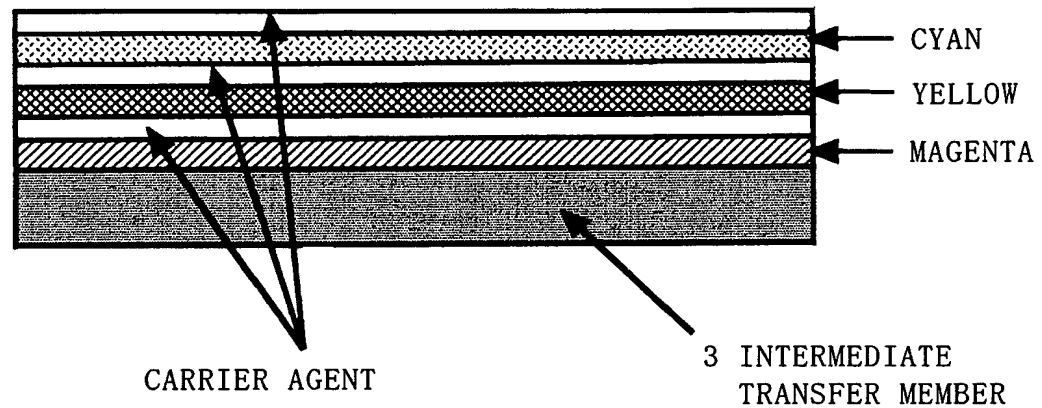


FIG. 7

(A) WHEN REMOVAL OF CARRIER AGENT IS NOT PERFORMED
IN EACH TRANSFER OF TONER IMAGE IN EACH COLOR



(B) WHEN REMOVAL OF CARRIER AGENT IS PERFORMED
IN EACH TRANSFER OF TONER IMAGE IN EACH COLOR

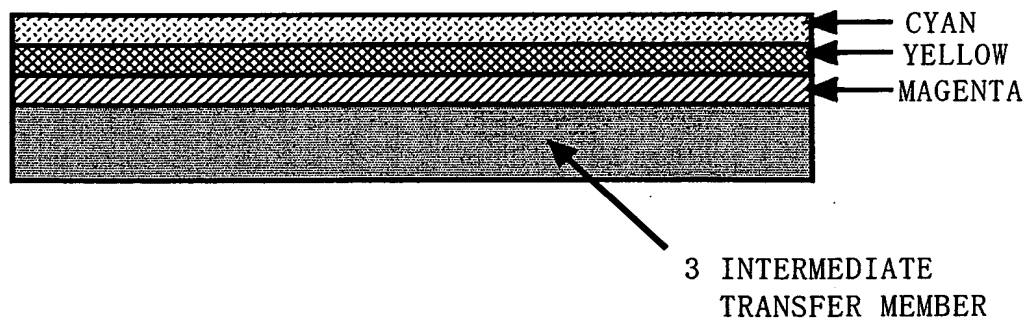


FIG. 8

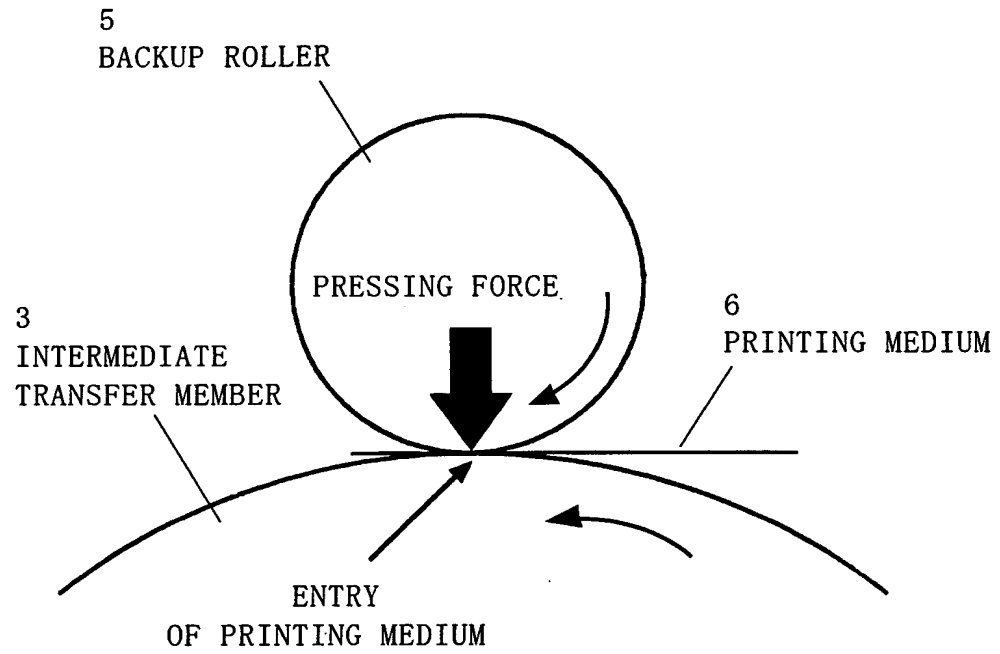


FIG. 9

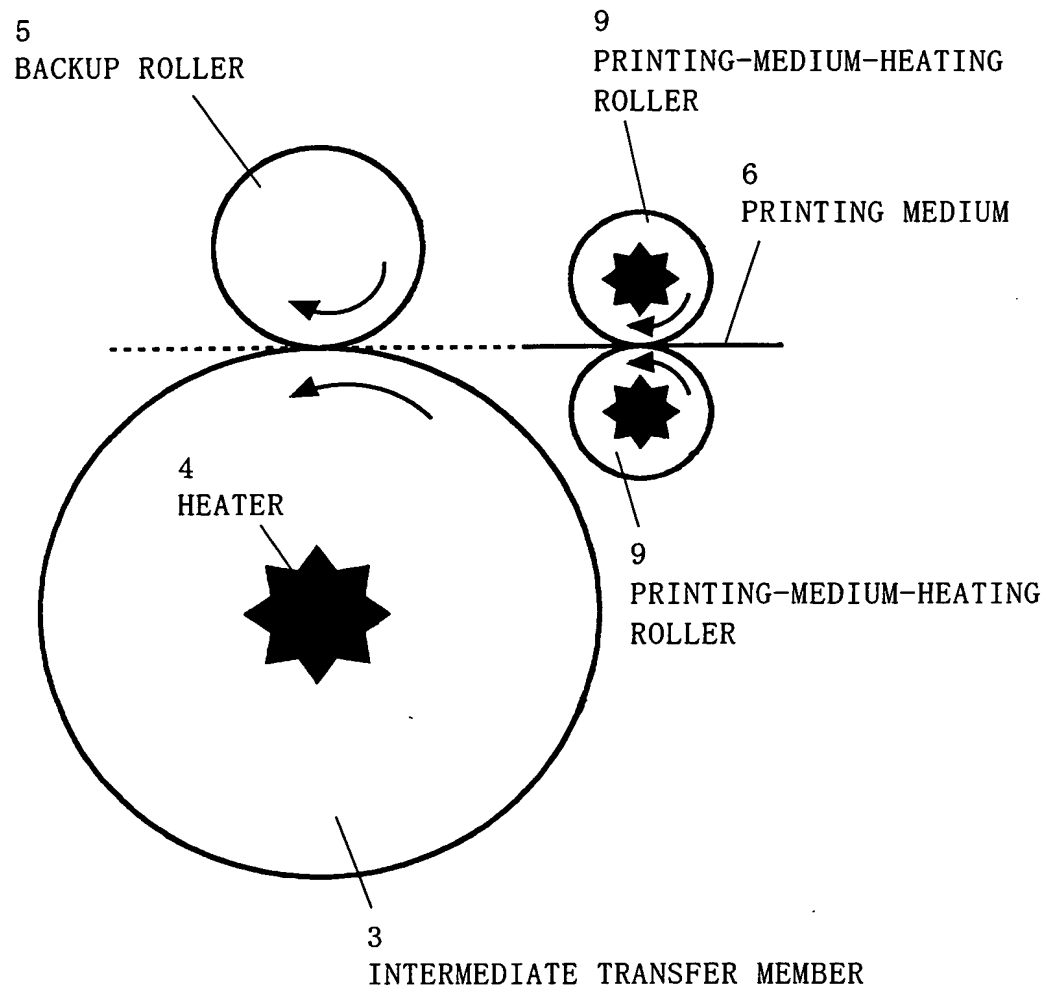


FIG. 10

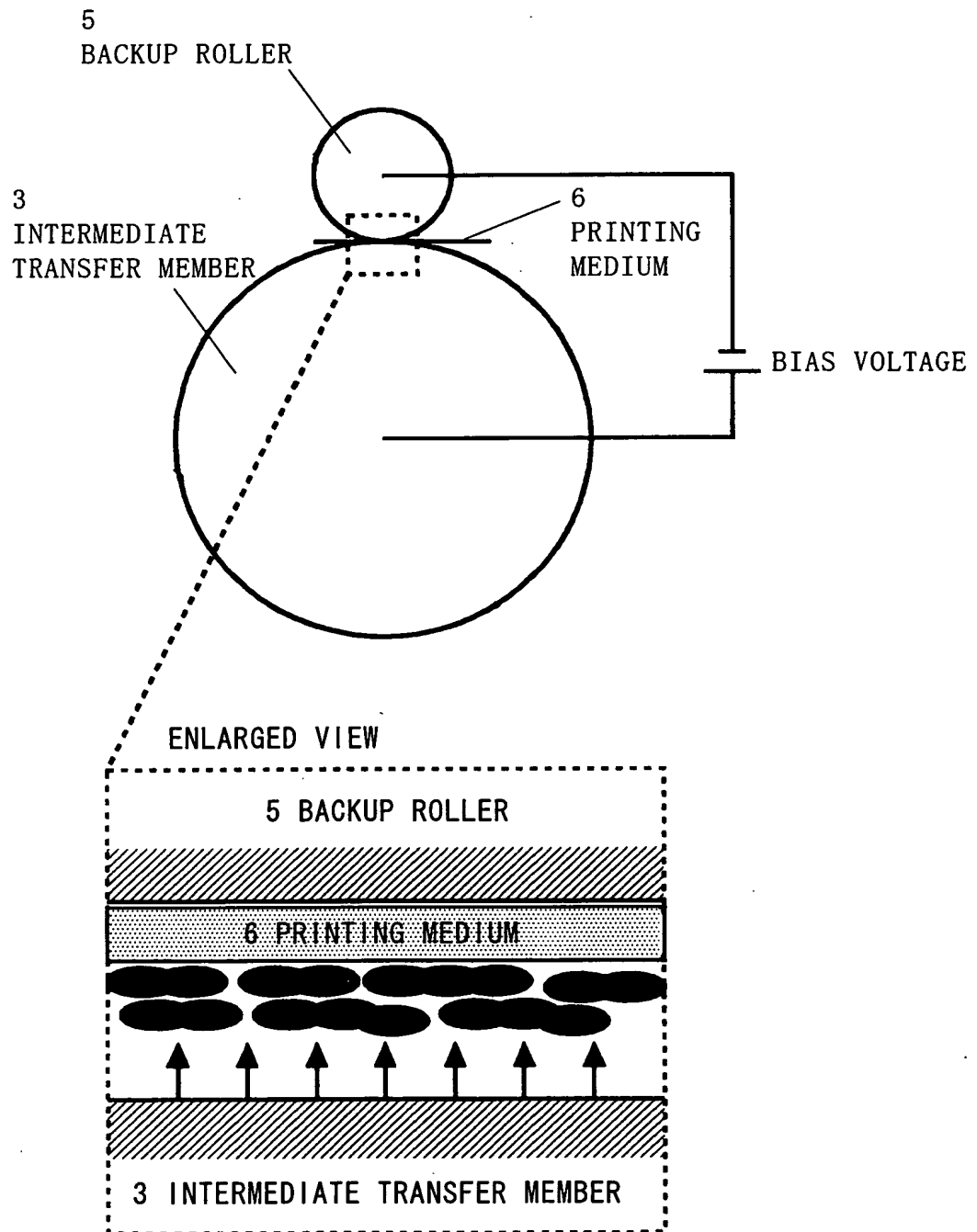
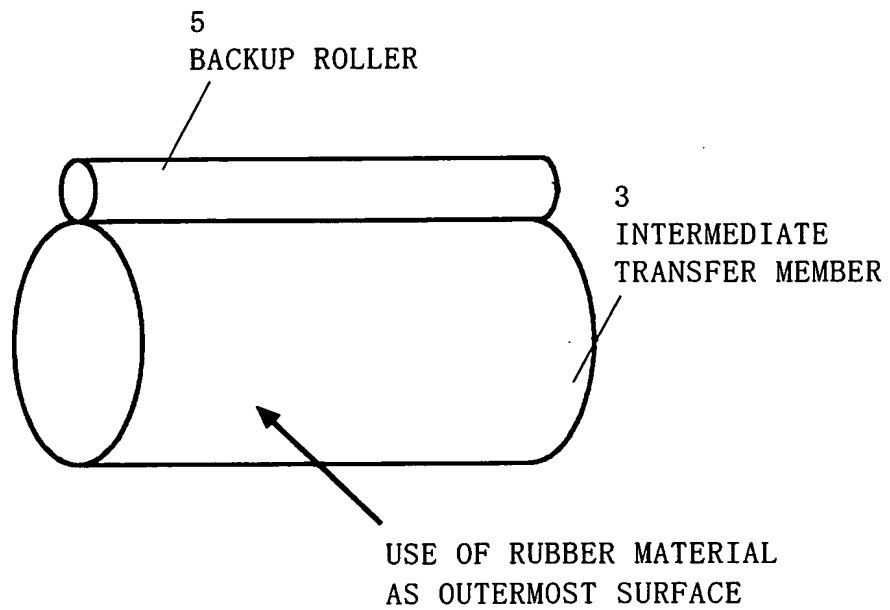


FIG. 11

(A)



(B)

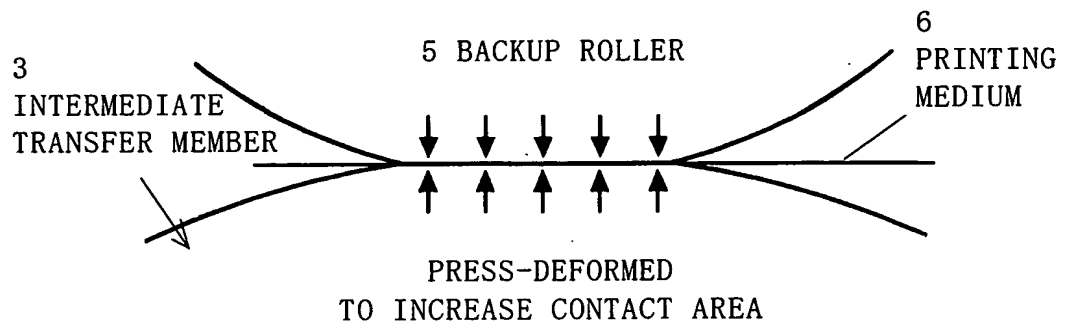


FIG. 12

PRIOR ART

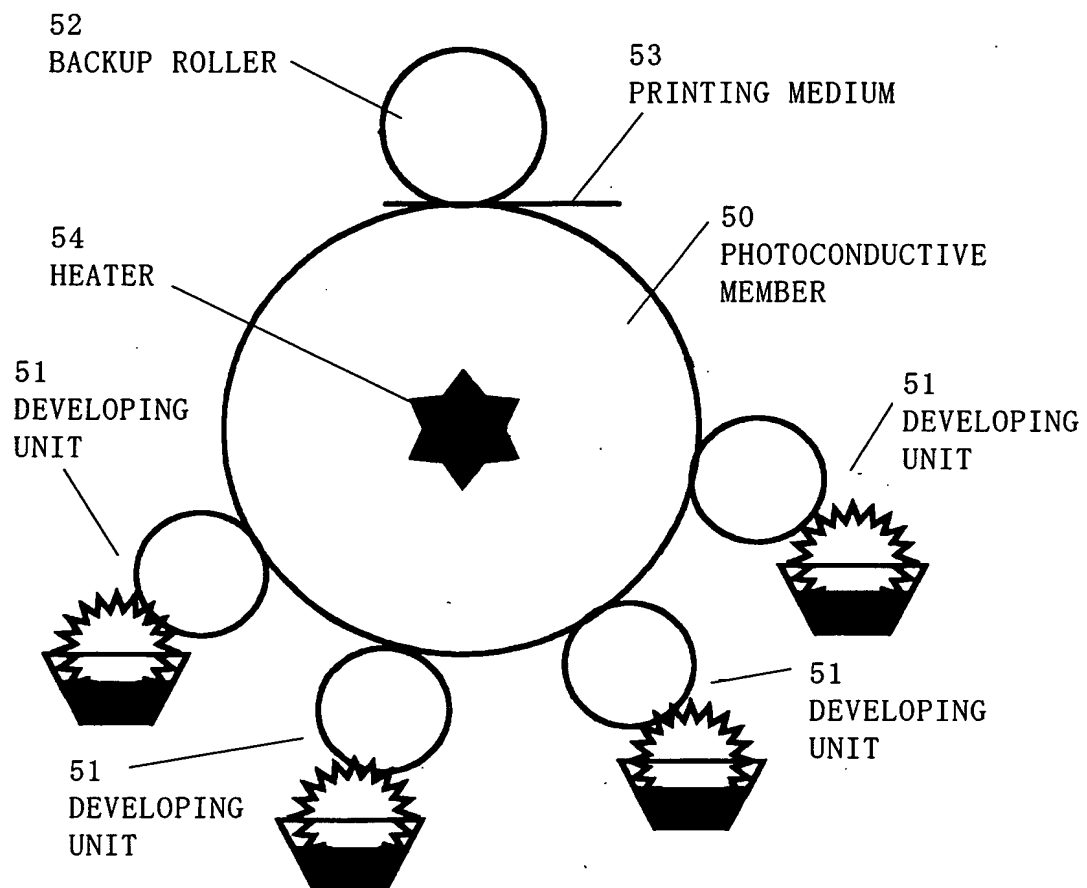
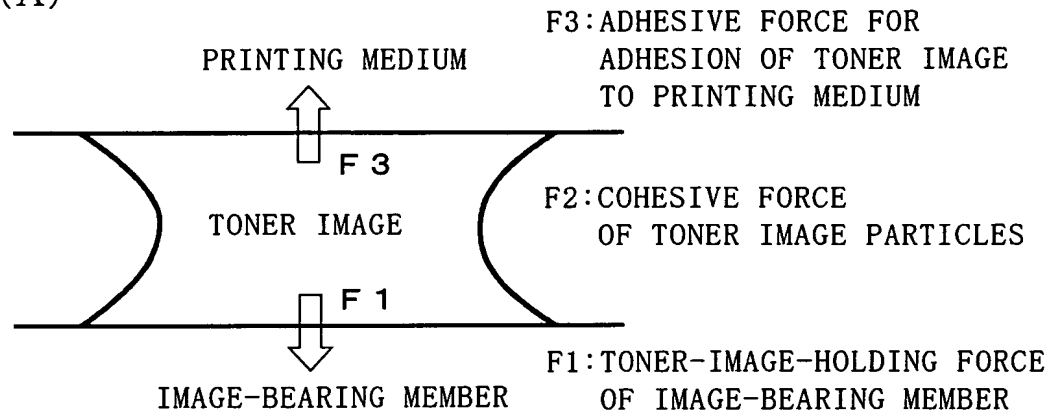


FIG. 13

(A)



(B)

VISCOELASTICITY VS. TRANSFER

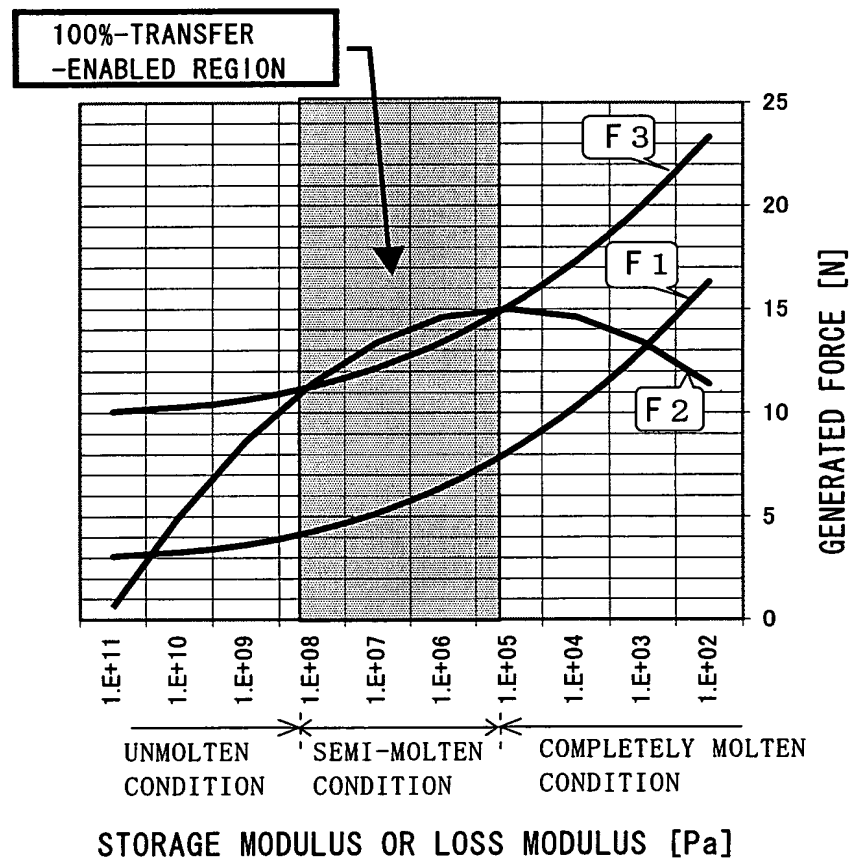


FIG. 14

VISCOELASTICITY VS. GENERATED FORCES ACTING
ON TONER PARTICLES

STORAGE MODULUS OR LOSS MODULUS [Pa]	F1: TONER-HOLDING -FORCE OF IMAGE-BEARING MEMBER [N]	F2: COHESIVE FORCE OF TONER [N]	F3: ADHESIVE FORCE FOR ADHESION TO MEDIUM (PAPER) [N]
1.E+02	16.31	11.4	23.31
1.E+03	13.00	13.4	20.00
1.E+04	10.29	14.6	17.29
1.E+05	8.12	15.0	15.12
1.E+06	6.43	14.6	13.43
1.E+07	5.16	13.4	12.16
1.E+08	4.25	11.4	11.25
1.E+09	3.64	8.6	10.64
1.E+10	3.27	5.0	10.27
1.E+11	3.08	0.6	10.08